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PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	H1799-00071
First Inventor	PETER DUSSINGER
Title	INTEGRATED CIRCUIT HEAT PIPE HEAT SPREADER WITH THROUGH MOUNTING HOLES
Express Mail Label No.	EI901223587US

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☒ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification [Total Pages **15**]  
(preferred arrangement set forth below)
- Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets **3**]
5. Oath or Declaration [Total Pages **2**]
- a. ☐ Newly executed (original or copy)
- b. ☒ Copy from a prior application (37 CFR 1.63 (d))  
(for continuation/divisional with Box 18 completed)
- i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

**ADDRESS TO:** Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
- a. ☐ Computer Readable Form (CRF)
- b. Specification Sequence Listing on:
- i. ☐ CD-ROM or CD-R (2 copies); or
- ii. ☐ paper
- c. ☐ Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9. ☒ Assignment Papers (cover sheet & document(s)) **copy**
10. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☒ Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☒ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. **SMALL ENTITY STATEMENT**
17. ☒ Other: **CHECK**

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: **09** / **310,397**

Prior application information: Examiner **C. ATKINSON** Group Art Unit: **3743**

**For CONTINUATION OR DIVISIONAL APPS only:** The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**

☐ Customer Number or Bar Code Label **08933** (Insert Customer No. or Attach bar code label here) or ☒ Correspondence address below

Name	SAMUEL W. APICELLI				
Address	DUANE, MORRIS & HECKSCHER LLP 305 NORTH FRONT STREET, P.O. BOX 1003				
City	HARRISBURG	State	PA	Zip Code	17108-1003
Country	US	Telephone	717-237-5516	Fax	717-234-4015

Name (Print/Type)	SAMUEL W. APICELLI	Registration No. (Attorney/Agent)	36,427
Signature	<i>Samuel W. Apicelli</i>	Date	5/9/01

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

# FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$)

515

## Complete if Known

Application Number	NOT YET KNOWN
Filing Date	HEREWITH
First Named Inventor	PETER DUSSINGER
Examiner Name	ATKINSON, C.
Group Art Unit	3743
Attorney Docket No.	H1799-00071

## METHOD OF PAYMENT

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number: 04-1679  
Deposit Account Name: DUANEMORRIS&HECKSCHER LLP

☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

☒ Applicant claims small entity status. See 37 CFR 1.27

2. ☒ Payment Enclosed:

☒ Check ☐ Credit card ☐ Money Order ☐ Other

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
101 710	201 355	Utility filing fee	355
106 320	206 160	Design filing fee	
107 490	207 245	Plant filing fee	
108 710	208 355	Reissue filing fee	
114 150	214 75	Provisional filing fee	

SUBTOTAL (1) (\$) 355

### 2. EXTRA CLAIM FEES

Total Claims: 15 -20\*\* = 0 X 0 = 0  
Independent Claims: 7 -3\*\* = 4 X 40 = 160  
Multiple Dependent: ☐ = ☐

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
103 18	203 9	Claims in excess of 20
102 80	202 40	Independent claims in excess of 3
104 270	204 135	Multiple dependent claim, if not paid
109 80	209 40	** Reissue independent claims over original patent
110 18	210 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) 160

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
105 130	205 65	Surcharge - late filing fee or oath	
127 50	227 25	Surcharge - late provisional filing fee or cover sheet	
139 130	139 130	Non-English specification	
147 2,520	147 2,520	For filing a request for ex parte reexamination	
112 920*	112 920*	Requesting publication of SIR prior to Examiner action	
113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action	
115 110	215 55	Extension for reply within first month	
116 390	216 195	Extension for reply within second month	
117 890	217 445	Extension for reply within third month	
118 1,390	218 695	Extension for reply within fourth month	
128 1,890	228 945	Extension for reply within fifth month	
119 310	219 155	Notice of Appeal	
120 310	220 155	Filing a brief in support of an appeal	
121 270	221 135	Request for oral hearing	
138 1,510	138 1,510	Petition to institute a public use proceeding	
140 110	240 55	Petition to revive - unavoidable	
141 1,240	241 620	Petition to revive - unintentional	
142 1,240	242 620	Utility issue fee (or reissue)	
143 440	243 220	Design issue fee	
144 600	244 300	Plant issue fee	
122 130	122 130	Petitions to the Commissioner	
123 50	123 50	Processing fee under 37 CFR 1.17(q)	
126 180	126 180	Submission of Information Disclosure Stmt	
581 40	581 40	Recording each patent assignment per property (times number of properties)	
146 710	246 355	Filing a submission after final rejection (37 CFR § 1.129(a))	
149 710	249 355	For each additional invention to be examined (37 CFR § 1.129(b))	
179 710	279 355	Request for Continued Examination (RCE)	
169 900	169 900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) \_\_\_\_\_

## SUBMITTED BY

Name (Print/Type)	SAMUEL W. APICELLI	Registration No. (Attorney/Agent)	36,427	Telephone	717-237-5516
Signature	<i>Samuel W. Apicelli</i>	Date	5/9/01		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Dussinger et al.

Serial No.: Not yet known

Filing Date: Herewith

For: INTEGRATED CIRCUIT HEAT PIPE HEAT SPREADER WITH THROUGH MOUNTING HOLES

CERTIFICATE OF EXPRESS MAIL

BOX PATENT APPLICATION  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

I hereby certify that this document, namely the above-identified **Utility Patent Application** is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service on the date indicated below and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

"Express Mail" mailing label number EI901223587US

Date of Deposit 05/09/2001.

Respectfully submitted,



Samuel W. Apicelli, Esq.  
Registration No. 36427  
Customer Number 08933  
Duane, Morris & Heckscher LLP  
305 North Front Street, P.O. Box 1003  
Harrisburg, PA 17108-1003  
Telephone: (717) 237-5516

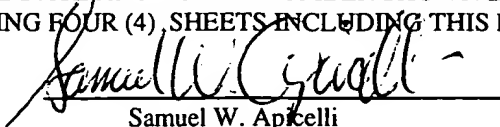
Date: 05/09/2001

Docket No: H1799-00071  
HBG\75338.1

106050" 22E25860

CERTIFICATE OF FACSIMILE TRANSMISSION 37 C.F.R. 1.6 & 1.8  
I CERTIFY THAT THIS CORRESPONDENCE IS BEING TRANSMITTED BY FACSIMILE TO THE PATENT  
AND TRADEMARK OFFICE ON THE DATE, AND TO THE NUMBER SHOWN BELOW.  
FAX. NO. 703-308-7764 COMPRISING FOUR (4) SHEETS INCLUDING THIS PAGE.

Date: November 3, 2000

  
Samuel W. Apicelli  
Reg. No. 36,427

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Dussinger et al.

Serial No: 09/310,397

Examiner: Atkinson, C.

Filed: 05/12/1999

Group Art Unit: 3743

For: INTEGRATED CIRCUIT HEAT PIPE HEAT SPREADER WITH THROUGH  
MOUNTING HOLES

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Sir:

TRANSMITTAL LETTER


Please find enclosed for filing:

- ☒ Power of Attorney and Change of Correspondence
- ☒ Statement Under 37 CFR 3.73(b)
- ☒ If any fees are required, please debit the same from

Deposit Account No. 04-1679. This Transmittal Letter is submitted in duplicate.

Date: 11/3/00

Respectfully submitted,

  
Samuel W. Apicelli  
Registration No.: 36,427  
Customer Number 08933  
DUANE, MORRIS & HECKSCHER, LLP  
305 North Front Street, P.O. Box 1003  
Harrisburg, PA 17108-1003  
(717) 237-5516

Attorney Docket No.: H1799-00025

006050 2225860

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**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Dussinger et al.Application No./Patent No.: 09/310,397 Filed/Issue Date: 05/12/1999Entitled: INTEGRATED CIRCUIT HEAT PIPE HEAT SPREADER WITH THROUGH MOUNTING HOLESThermal Corp., a Delaware corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by, percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 009961 Frame 0197, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

3. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

November 3, 2000

Date

Samuel W. Apicelli Reg. No. 36,427

Typed or printed name

Signature

Attorney of Record

Title

F06050"22625860

Attorney's Docket No. \_\_\_\_\_  
Martin Fruitman  
419 N. George St.  
Millersville, PA 17551

COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, DC 20231

Sir:

Transmitted herewith for filing is the patent application of:

Inventor: Peter M. Dussinger et al

For: INTEGRATED CIRCUIT HEAT PIPE HEAT SPREADER  
WITH THROUGH MOUNTING HOLES

Enclosed are:

[X] \_\_\_\_\_3\_\_\_\_\_ sheets of drawing

[X] An assignment of the invention to Thermal Corp.

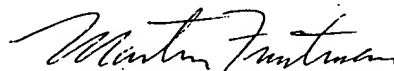
[X] A verified statement to establish small entity status under  
37 C.F.R. 1.9 and 37 C.F.R. 1.27.

The filing fee has been calculated as shown below:

(Col. 1) (Col. 2) NO.			SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
FOR:	NO. FILED	EXTRA	RATE	FEE		RATE	FEE
BASIC FEE	*****	*****	****	\$380	OR	****	\$760
TOTAL CLMS	7-20=	0	x9	\$ 0	OR	x18	\$
INDEP. CLMS	2-3=	0	x39	\$ 0	OR	x78	\$
[ ] MULTIPLE INDEPENDENT CLAIMS			x	\$ 0	OR	x	\$
TOTAL				\$380		TOTAL	\$

[X] A check in the amount of \$380.00 to cover the filing fee is enclosed.

[X] A second check in the amount of \$ 40.00 to cover the fee for recording of the assignment is enclosed.  
A duplicate copy of this sheet is enclosed.



Martin Fruitman  
Attorney of Record  
Reg. No. 26,890

095232 050901